

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/575,457
Source: JFLWP
Date Processed by STIC: 05/04/2006

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IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,457

DATE: 05/04/2006

TIME: 12:47:45

Input Set : A:\08576.0904-00000 Sequence Listing.txt
Output Set: N:\CRF4\05042006\J575457.raw

3 <110> APPLICANT: Elan Pharmaceuticals, Inc.
4 Zhao, Byron
5 Mei, Yu
7 <120> TITLE OF INVENTION: Neuroprotective Effects of ATF6
9 <130> FILE REFERENCE: 08576.0004-00304
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/575,457
C--> 12 <141> CURRENT FILING DATE: 2006-04-12
14 <150> PRIOR APPLICATION NUMBER: 60/491,565
15 <151> PRIOR FILING DATE: 2003-08-01
17 <160> NUMBER OF SEQ ID NOS: 11
19 <170> SOFTWARE: PatentIn version 3.2
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 10
23 <212> TYPE: DNA
24 <213> ORGANISM: human, rat, murine
26 <400> SEQUENCE: 1
27 ggtgacgtgg
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 10
32 <212> TYPE: DNA
33 <213> ORGANISM: human, rat, murine
35 <400> SEQUENCE: 2
36 ggtgacgtga
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 19
41 <212> TYPE: DNA
42 <213> ORGANISM: human, rat, murine
44 <400> SEQUENCE: 3
45 ccaatcgccg cggccacg
48 <210> SEQ ID NO: 4
49 <211> LENGTH: 670
50 <212> TYPE: PRT
51 <213> ORGANISM: human
53 <400> SEQUENCE: 4
55 Met Gly Glu Pro Ala Gly Val Ala Gly Thr Met Glu Ser Pro Phe Ser
56 1 5 10 15
59 Pro Gly Leu Phe His Arg Leu Asp Glu Asp Trp Asp Ser Ala Leu Phe
60 20 25 30
63 Ala Glu Leu Gly Tyr Phe Thr Asp Thr Asp Glu Leu Gln Leu Glu Ala
64 35 40 45
67 Ala Asn Glu Thr Tyr Glu Asn Asn Phe Asp Asn Leu Asp Phe Asp Leu
68 50 55 60
71 Asp Leu Leu Pro Trp Glu Ser Asp Ile Trp Asp Ile Asn Asn Gln Ile

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72	65	70	75	80												
75	Cys	Thr	Val	Lys	Asp	Ile	Lys	Ala	Glu	Pro	Gln	Pro	Leu	Ser	Pro	Ala
76				85			90							95		
79	Ser	Ser	Ser	Tyr	Ser	Val	Ser	Ser	Pro	Arg	Ser	Val	Asp	Ser	Tyr	Ser
80				100			105							110		
83	Ser	Thr	Gln	His	Val	Pro	Glu	Glu	Leu	Asp	Leu	Ser	Ser	Ser	Ser	Gln
84			115			120							125			
87	Met	Ser	Pro	Leu	Ser	Leu	Tyr	Gly	Glu	Asn	Ser	Asn	Ser	Leu	Ser	Ser
88		130				135							140			
91	Pro	Glu	Pro	Leu	Lys	Glu	Asp	Lys	Pro	Val	Thr	Gly	Ser	Arg	Asn	Lys
92	145				150						155			160		
95	Thr	Glu	Asn	Gly	Leu	Thr	Pro	Lys	Lys	Ile	Gln	Val	Asn	Ser	Lys	
96					165			170						175		
99	Pro	Ser	Ile	Gln	Pro	Lys	Pro	Leu	Leu	Leu	Pro	Ala	Ala	Pro	Lys	Thr
100					180			185						190		
103	Gln	Thr	Asn	Ser	Ser	Val	Pro	Ala	Lys	Thr	Ile	Ile	Ile	Gln	Thr	Val
104					195			200						205		
107	Pro	Thr	Leu	Met	Pro	Leu	Ala	Lys	Gln	Gln	Pro	Ile	Ile	Ser	Leu	Gln
108			210			215							220			
111	Pro	Ala	Pro	Thr	Lys	Gly	Gln	Thr	Val	Leu	Leu	Ser	Gln	Pro	Thr	Val
112	225				230				235					240		
115	Val	Gln	Leu	Gln	Ala	Pro	Gly	Val	Leu	Pro	Ser	Ala	Gln	Pro	Val	Leu
116					245			250						255		
119	Ala	Val	Ala	Gly	Gly	Val	Thr	Gln	Leu	Pro	Asn	His	Val	Val	Asn	Val
120					260			265						270		
123	Val	Pro	Ala	Pro	Ser	Ala	Asn	Ser	Pro	Val	Asn	Gly	Lys	Leu	Ser	Val
124					275			280						285		
127	Thr	Lys	Pro	Val	Leu	Gln	Ser	Thr	Met	Arg	Asn	Val	Gly	Ser	Asp	Ile
128					290			295						300		
131	Ala	Val	Leu	Arg	Arg	Gln	Gln	Arg	Met	Ile	Lys	Asn	Arg	Glu	Ser	Ala
132	305				310				315						320	
135	Cys	Gln	Ser	Arg	Lys	Lys	Lys	Lys	Glu	Tyr	Met	Leu	Gly	Leu	Glu	Ala
136					325			330						335		
139	Arg	Leu	Lys	Ala	Ala	Leu	Ser	Glu	Asn	Glu	Gln	Leu	Lys	Lys	Glu	Asn
140					340			345						350		
143	Gly	Thr	Leu	Lys	Arg	Gln	Leu	Asp	Glu	Val	Val	Ser	Glu	Asn	Gln	Arg
144					355			360						365		
147	Leu	Lys	Val	Pro	Ser	Pro	Lys	Arg	Arg	Val	Val	Cys	Val	Met	Ile	Val
148					370			375						380		
151	Leu	Ala	Phe	Ile	Ile	Leu	Asn	Tyr	Gly	Pro	Met	Ser	Met	Leu	Glu	Gln
152	385				390				395						400	
155	Asp	Ser	Arg	Arg	Met	Asn	Pro	Ser	Val	Gly	Pro	Ala	Asn	Gln	Arg	Arg
156					405				410						415	
159	His	Leu	Leu	Gly	Phe	Ser	Ala	Lys	Glu	Ala	Gln	Asp	Thr	Ser	Asp	Gly
160					420			425						430		
163	Ile	Ile	Gln	Lys	Asn	Ser	Tyr	Arg	Tyr	Asp	His	Ser	Val	Ser	Asn	Asp
164					435			440						445		
167	Lys	Ala	Leu	Met	Val	Leu	Thr	Glu	Glu	Pro	Leu	Leu	Tyr	Ile	Pro	Pro
168					450			455						460		

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171 Pro Pro Cys Gln Pro Leu Ile Asn Thr Thr Glu Ser Leu Arg Leu Asn
 172 465 470 475 480
 175 His Glu Leu Arg Gly Trp Val His Arg His Glu Val Glu Arg Thr Lys
 176 485 490 495
 179 Ser Arg Arg Met Thr Asn Asn Gln Gln Lys Thr Arg Ile Leu Gln Gly
 180 500 505 510
 183 Val Val Glu Gln Gly Ser Asn Ser Gln Leu Met Ala Val Gln Tyr Thr
 184 515 520 525
 187 Glu Thr Thr Ser Ser Ile Ser Arg Asn Ser Gly Ser Glu Leu Gln Val
 188 530 535 540
 191 Tyr Tyr Ala Ser Pro Arg Ser Tyr Gln Asp Phe Phe Glu Ala Ile Arg
 192 545 550 555 560
 195 Arg Arg Gly Asp Thr Phe Tyr Val Val Ser Phe Arg Arg Asp His Leu
 196 565 570 575
 199 Leu Leu Pro Ala Thr Thr His Asn Lys Thr Thr Arg Pro Lys Met Ser
 200 580 585 590
 203 Ile Val Leu Pro Ala Ile Asn Ile Asn Glu Asn Val Ile Asn Gly Gln
 204 595 600 605
 207 Asp Tyr Glu Val Met Met Gln Ile Asp Cys Gln Val Met Asp Thr Arg
 208 610 615 620
 211 Ile Leu His Ile Lys Ser Ser Ser Val Pro Pro Tyr Leu Arg Asp Gln
 212 625 630 635 640
 215 Gln Arg Asn Gln Thr Asn Thr Phe Phe Gly Ser Pro Pro Ala Ala Thr
 216 645 650 655
 219 Glu Ala Thr His Val Val Ser Thr Ile Pro Glu Ser Leu Gln
 220 660 665 670
 223 <210> SEQ ID NO: 5
 224 <211> LENGTH: 703
 225 <212> TYPE: PRT
 226 <213> ORGANISM: human
 228 <400> SEQUENCE: 5
 230 Met Ala Glu Leu Met Leu Leu Ser Glu Ile Ala Asp Pro Thr Arg Phe
 231 1 5 10 15
 234 Phe Thr Asp Asn Leu Leu Ser Pro Glu Asp Trp Gly Leu Gln Asn Ser
 235 20 25 30
 238 Thr Leu Tyr Ser Gly Leu Asp Glu Val Ala Glu Glu Gln Thr Gln Leu
 239 35 40 45
 242 Phe Arg Cys Pro Glu Gln Asp Val Pro Phe Asp Gly Ser Ser Leu Asp
 243 50 55 60
 246 Val Gly Met Asp Val Ser Pro Ser Glu Pro Pro Trp Glu Leu Leu Pro
 247 65 70 75 80
 250 Ile Phe Pro Asp Leu Gln Val Lys Ser Glu Pro Ser Ser Pro Cys Ser
 251 85 90 95
 254 Ser Ser Ser Leu Ser Ser Glu Ser Ser Arg Leu Ser Thr Glu Pro Ser
 255 100 105 110
 258 Ser Glu Ala Leu Gly Val Gly Glu Val Leu His Val Lys Thr Glu Ser
 259 115 120 125
 262 Leu Ala Pro Pro Leu Cys Leu Leu Gly Asp Asp Pro Thr Ser Ser Phe
 263 130 135 140

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266 Glu Thr Val Gln Ile Asn Val Ile Pro Thr Ser Asp Asp Ser Ser Asp
 267 145 150 155 160
 270 Val Gln Thr Lys Ile Glu Pro Val Ser Pro Cys Ser Ser Val Asn Ser
 271 165 170 175
 274 Glu Ala Ser Leu Leu Ser Ala Asp Ser Ser Ser Gln Ala Phe Ile Gly
 275 180 185 190
 278 Glu Gln Val Leu Glu Val Lys Thr Glu Ser Leu Ser Pro Ser Gly Cys
 279 195 200 205
 282 Leu Leu Trp Asp Val Pro Ala Pro Ser Leu Gly Ala Val Gln Ile Ser
 283 210 215 220
 286 Met Gly Pro Ser Leu Asp Gly Ser Ser Gly Lys Ala Leu Pro Thr Arg
 287 225 230 235 240
 290 Lys Pro Pro Leu Gln Pro Lys Pro Val Val Leu Thr Thr Val Pro Met
 291 245 250 255
 294 Pro Ser Arg Ala Val Pro Pro Ser Thr Thr Val Leu Leu Gln Ser Leu
 295 260 265 270
 298 Val Gln Pro Pro Pro Val Ser Pro Val Val Leu Ile Gln Gly Ala Ile
 299 275 280 285
 302 Arg Val Gln Pro Glu Gly Pro Ala Pro Ser Leu Pro Arg Pro Glu Arg
 303 290 295 300
 306 Lys Ser Ile Val Pro Ala Pro Met Pro Gly Asn Ser Cys Pro Pro Glu
 307 305 310 315 320
 310 Val Asp Ala Lys Leu Leu Lys Arg Gln Gln Arg Met Ile Lys Asn Arg
 311 325 330 335
 314 Glu Ser Ala Cys Gln Ser Arg Arg Lys Lys Lys Glu Tyr Leu Gln Gly
 315 340 345 350
 318 Leu Glu Ala Arg Leu Gln Ala Val Leu Ala Asp Asn Gln Gln Leu Arg
 319 355 360 365
 322 Arg Glu Asn Ala Ala Leu Arg Arg Arg Leu Glu Ala Leu Leu Ala Glu
 323 370 375 380
 326 Asn Ser Glu Leu Lys Leu Gly Ser Gly Asn Arg Lys Val Val Cys Ile
 327 385 390 395 400
 330 Met Val Phe Leu Leu Phe Ile Ala Phe Asn Phe Gly Pro Val Ser Ile
 331 405 410 415
 334 Ser Glu Pro Pro Ser Ala Pro Ile Ser Pro Arg Met Asn Lys Gly Glu
 335 420 425 430
 338 Pro Gln Pro Arg Arg His Leu Leu Gly Phe Ser Glu Gln Glu Pro Val
 339 435 440 445
 342 Gln Gly Val Glu Pro Leu Gln Gly Ser Ser Gln Gly Pro Lys Glu Pro
 343 450 455 460
 346 Gln Pro Ser Pro Thr Asp Gln Pro Ser Phe Ser Asn Leu Thr Ala Phe
 347 465 470 475 480
 350 Pro Gly Gly Ala Lys Glu Leu Leu Leu Arg Asp Leu Asp Gln Leu Phe
 351 485 490 495
 354 Leu Ser Ser Asp Cys Arg His Phe Asn Arg Thr Glu Ser Leu Arg Leu
 355 500 505 510
 358 Ala Asp Glu Leu Ser Gly Trp Val Gln Arg His Gln Arg Gly Arg Arg
 359 515 520 525
 362 Lys Ile Pro Gln Arg Ala Gln Glu Arg Gln Lys Ser Gln Pro Arg Lys

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363 530 535 540
 366 Lys Ser Pro Pro Val Lys Ala Val Pro Ile Gln Pro Pro Gly Pro Pro
 367 545 550 555 560
 370 Glu Arg Asp Ser Val Gly Gln Leu Gln Leu Tyr Arg His Pro Asp Arg
 371 565 570 575
 374 Ser Gln Pro Ala Phe Leu Asp Ala Ile Asp Arg Arg Glu Asp Thr Phe
 375 580 585 590
 378 Tyr Val Val Ser Phe Arg Arg Asp His Leu Leu Leu Pro Ala Ile Ser
 379 595 600 605
 382 His Asn Lys Thr Ser Arg Pro Lys Met Ser Leu Val Met Pro Ala Met
 383 610 615 620
 386 Ala Pro Asn Glu Thr Leu Ser Gly Arg Gly Ala Pro Gly Asp Tyr Glu
 387 625 630 635 640
 390 Glu Met Met Gln Ile Glu Cys Glu Val Met Asp Thr Arg Val Ile His
 391 645 650 655
 394 Ile Lys Thr Ser Thr Val Pro Pro Ser Leu Arg Lys Gln Pro Ser Pro
 395 660 665 670
 398 Thr Pro Gly Asn Ala Thr Gly Gly Pro Leu Pro Val Ser Ala Ala Ser
 399 675 680 685
 402 Gln Ala His Gln Ala Ser His Gln Pro Leu Tyr Leu Asn His Pro
 403 690 695 700
 406 <210> SEQ ID NO: 6
 407 <211> LENGTH: 678
 408 <212> TYPE: PRT
 409 <213> ORGANISM: mouse
 411 <400> SEQUENCE: 6
 413 Leu Thr His Pro Ser Cys Glu Gly Glu Val Ser Val Ser Gly Lys Pro
 414 1 5 10 15
 417 Ala Cys Val Ala Gly Ala Met Glu Ser Pro Phe Ser Pro Val Leu Pro
 418 20 25 30
 421 His Gly Pro Asp Glu Asp Trp Glu Ser Thr Leu Phe Ala Glu Leu Gly
 422 35 40 45
 425 Tyr Phe Thr Asp Thr Asp Asp Val His Phe Asp Ala Ala His Glu Ala
 426 50 55 60
 429 Tyr Glu Asn Asn Phe Asp His Leu Asn Phe Asp Leu Asp Leu Met Pro
 430 65 70 75 80
 433 Trp Glu Ser Asp Leu Trp Ser Pro Gly Ser His Phe Cys Ser Asp Met
 434 85 90 95
 437 Lys Ala Glu Pro Gln Pro Leu Ser Pro Ala Ser Ser Ser Cys Ser Ile
 438 100 105 110
 441 Ser Ser Pro Arg Ser Thr Asp Ser Cys Ser Ser Thr Gln His Val Pro
 442 115 120 125
 445 Glu Glu Leu Asp Leu Leu Ser Ser Ser Gln Ser Pro Leu Ser Leu Tyr
 446 130 135 140
 449 Gly Asp Ser Cys Asn Ser Pro Ser Ser Val Glu Pro Leu Lys Glu Glu
 450 145 150 155 160
 453 Lys Pro Val Thr Gly Pro Gly Asn Lys Thr Glu His Gly Leu Thr Pro
 454 165 170 175
 457 Lys Lys Lys Ile Gln Met Ser Ser Lys Pro Ser Val Gln Pro Lys Pro

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,457

DATE: 05/04/2006

TIME: 12:47:46

Input Set : A:\08576.0004-00000 Sequence Listing.txt
Output Set: N:\CRF4\05042006\J575457.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date